

FIG.1

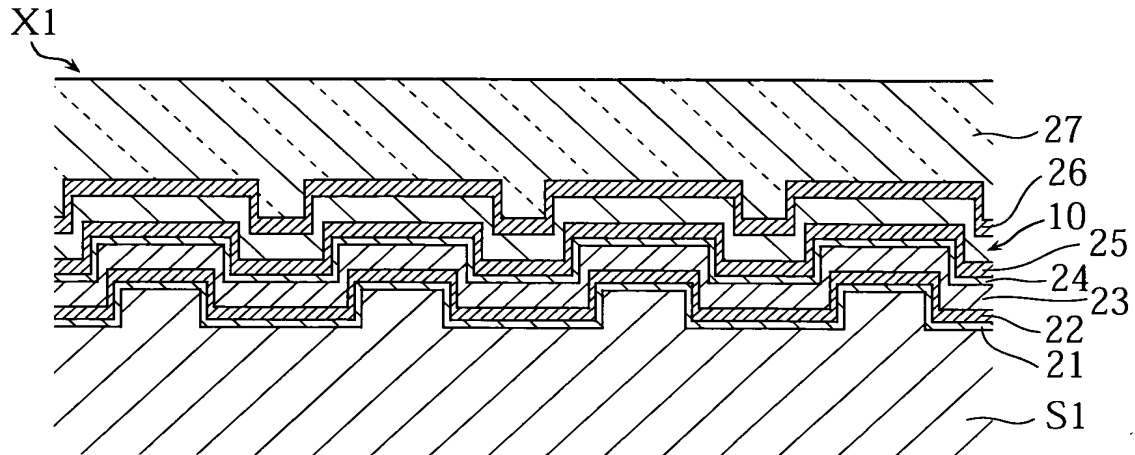


FIG.2

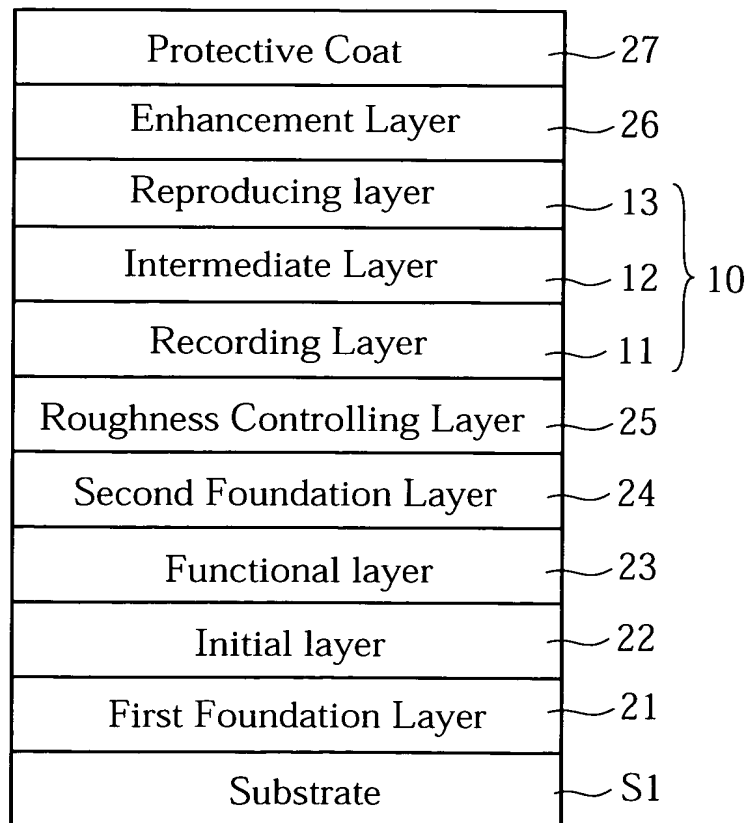


FIG.3A

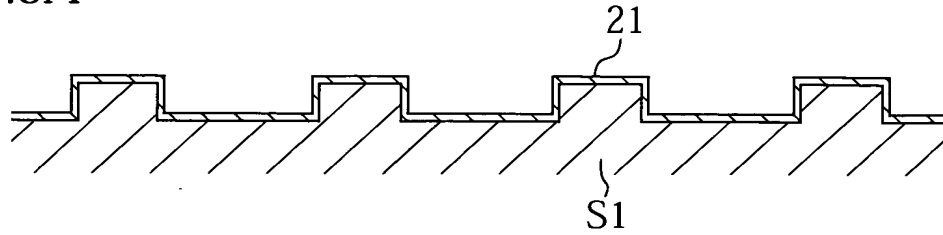


FIG.3B

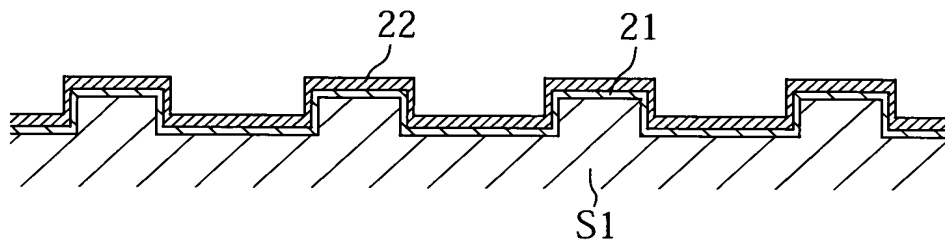


FIG.3C

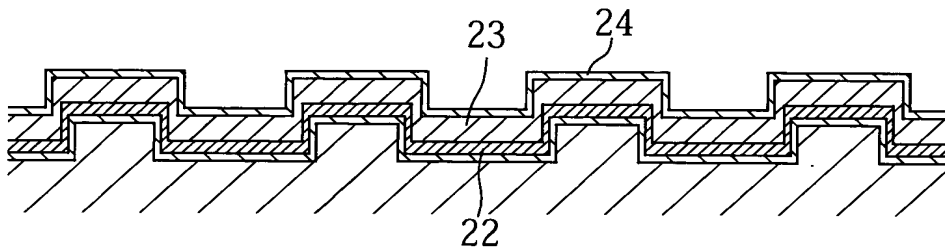


FIG.3D

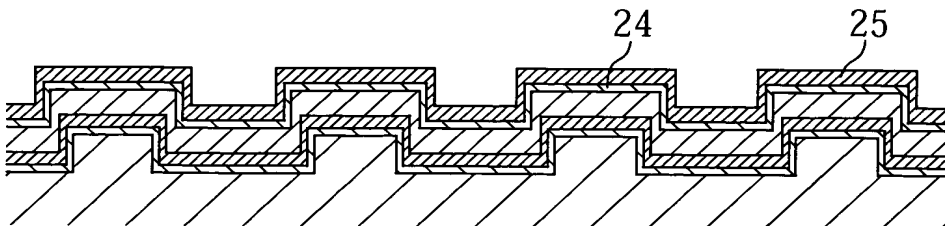


FIG.4A

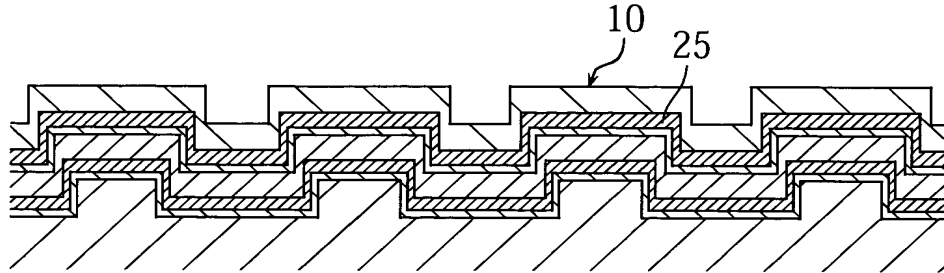


FIG.4B

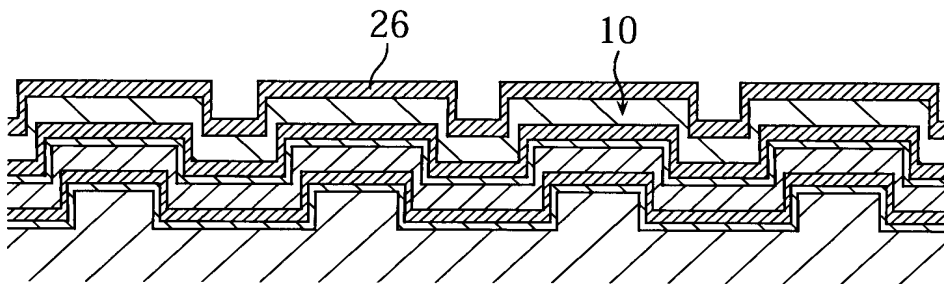


FIG.4C

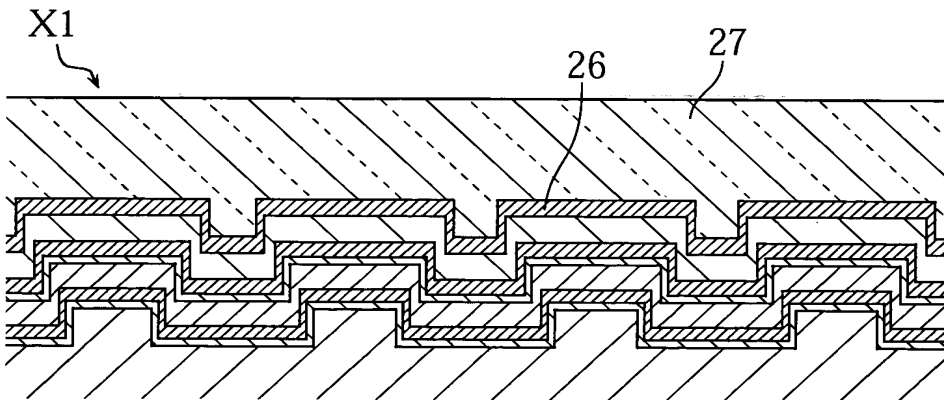


FIG.5A

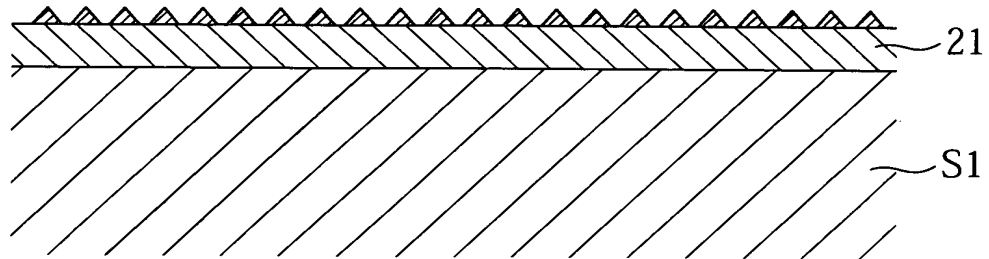


FIG.5B

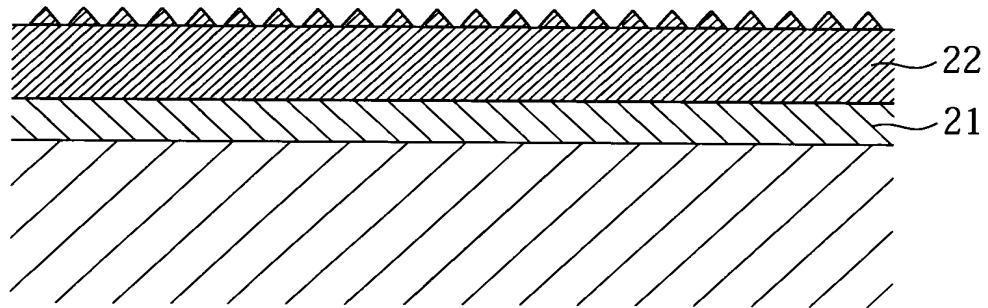


FIG.6A

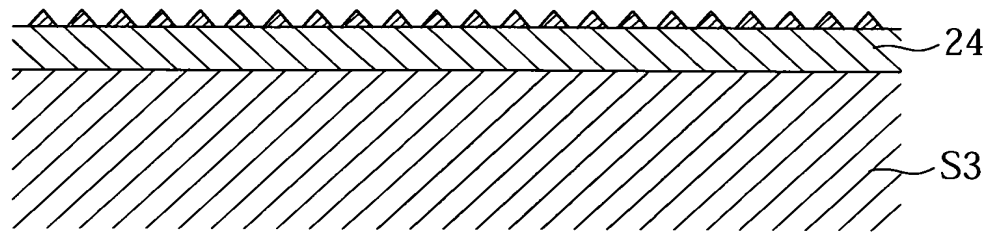


FIG.6B

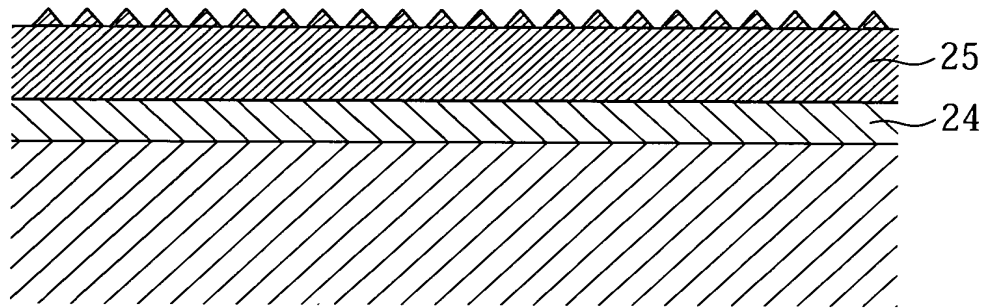


FIG.7

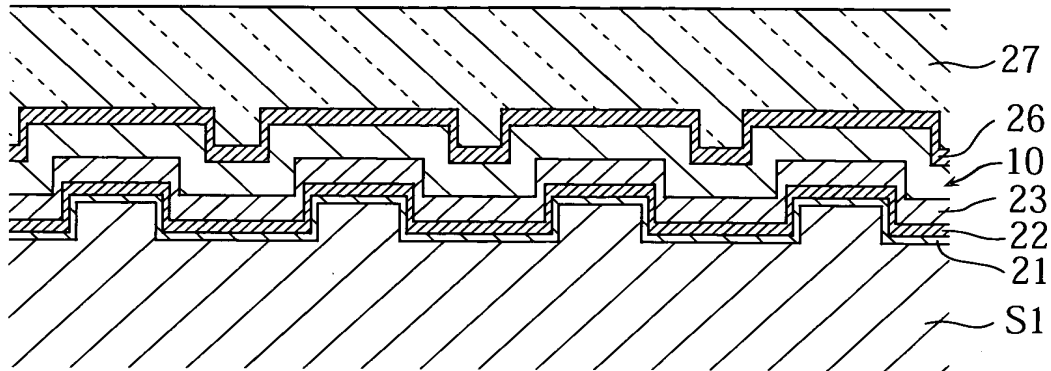


FIG.8

	APS (nm)	R a (nm)	P - V (nm)
Sample A	7.6	0.69	5.9
Sample B	15.2	0.72	6.3
Sample C	23.5	0.73	8.5
Sample D	34.7	0.98	9.5

FIG.9

Roughness Controlling Layer (Pt, 1nm)
Second Foundation Layer (SiN, 5nm)
Heat Sink Layer (AlSi, 30nm)
Initial Layer (Pt, 1nm)
First Foundation Layer (SiN, 2nm)
Substrate (Glass)

FIG.10

Heat Sink Layer (AlSi, 30nm)
Initial Layer (Pt, 1nm)
First Foundation Layer (SiN, 2nm)
Substrate (Glass)

FIG.11

Roughness Controlling Layer (Pt, 1nm)
Heat Sink Layer (AlSi, 30nm)
Substrate (Glass)

FIG.12

Heat Sink Layer (AlSi, 30nm)
Substrate (Glass)

FIG.13

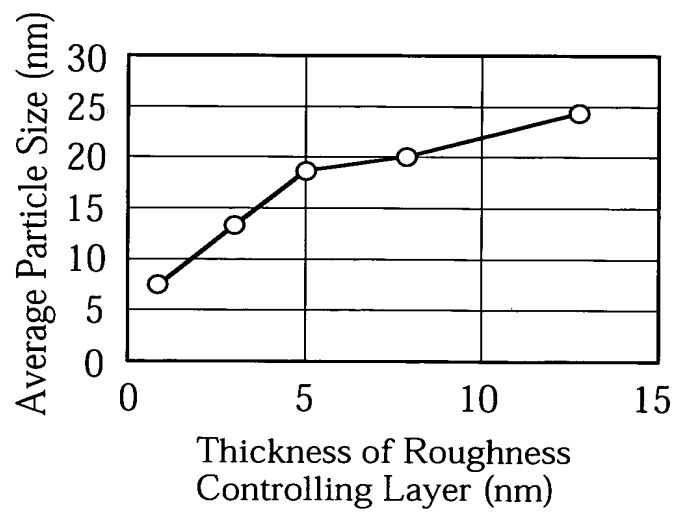


FIG.14

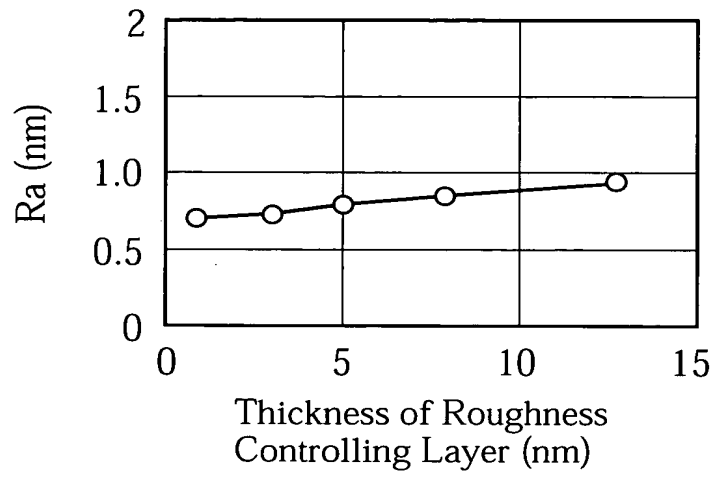


FIG.15

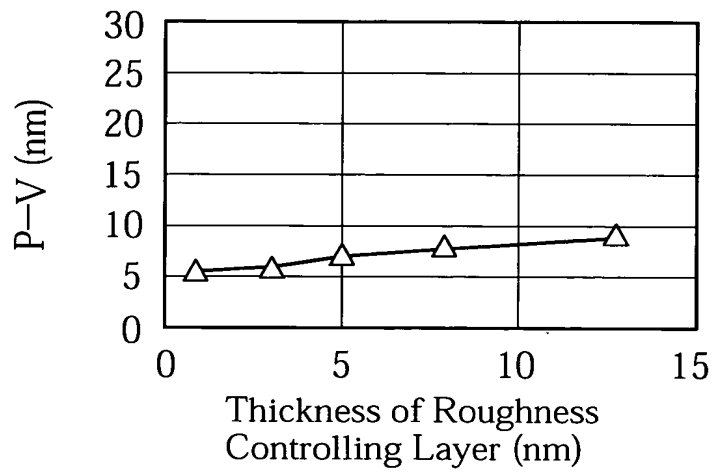


FIG.16

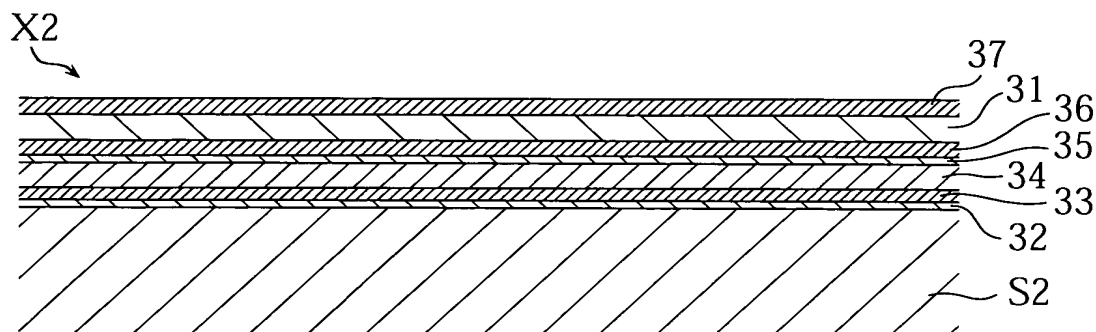


FIG.17

Protective Coat	37
Recording Layer	31
Roughness Controlling Layer	36
Second Foundation Layer	35
Functional Layer	34
Initial Layer	33
First Foundation Layer	32
Substrate	S2

FIG.18

Protective Coat (Transparent Resin, 15 μ m)
Enhancement Layer (SiN, 35nm)
Recording Layer (Tb ₂₂ Fe ₆₂ Co ₁₆ , 50nm)
Roughness Controlling Layer (Pt, 1nm)
Second Foundation Layer (SiN, 5nm)
Heat Sink Layer (AlSi, 30nm)
Initial Layer (Pt, 1nm)
First Foundation Layer (SiN, 2nm)
Substrate (Glass)

FIG.19

Protective Coat (Transparent Resin, 15 μ m)
Enhancement Layer (SiN, 35nm)
Recording Layer (Tb ₂₂ Fe ₆₂ Co ₁₆ , 50nm)
Roughness Controlling Layer (Pt, 1nm)
Heat Sink Layer (AlSi, 30nm)
Substrate (Glass)

FIG.20

Protective Coat (Transparent Resin, 15 μ m)
Enhancement Layer (SiN, 35nm)
Reproducing Layer (Gd ₂₇ Fe ₆₅ Co ₈ , 20nm)
Intermediate Layer (Tb ₂₂ Fe ₇₈ , 15nm)
Recording Layer (Tb ₂₂ Fe ₆₂ Co ₁₆ , 70nm)
Roughness Controlling Layer (Pt, 1nm)
Second Foundation Layer (SiN, 5nm)
Heat Sink Layer (AlSi, 30nm)
Initial Layer (Pt, 1nm)
First Foundation Layer (SiN, 2nm)
Substrate (Glass)

FIG.21

Protective Coat (Transparent Resin, 15 μ m)
Enhancement Layer (SiN, 35nm)
Reproducing Layer (Gd ₂₇ Fe ₆₅ Co ₈ , 20nm)
Intermediate Layer (Tb ₂₂ Fe ₇₈ , 15nm)
Recording Layer (Tb ₂₂ Fe ₆₂ Co ₁₆ , 70nm)
Roughness Controlling Layer (Pt, 1nm)
Heat Sink Layer (AlSi, 30nm)
Substrate (Glass)

FIG.22

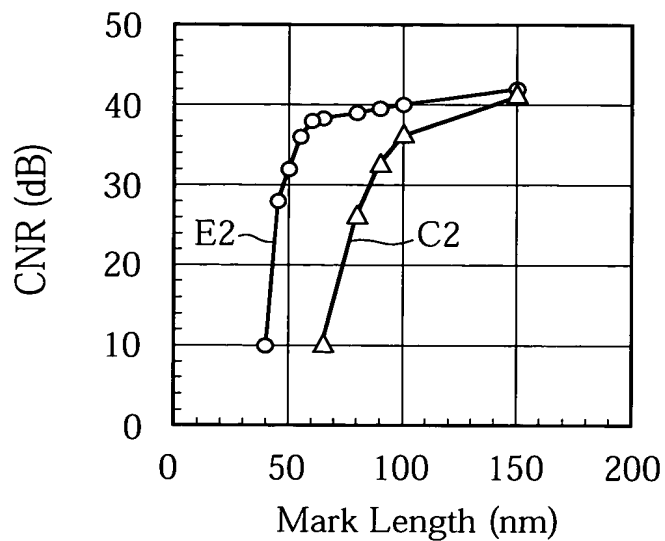


FIG.23

